PATENT ABSTRACTS OF JAPAN

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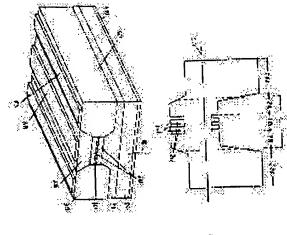
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(54) SEMICONDUCTOR LIGHT EMITTING ELEMENT

CONSTITUTION: Referring an energy level diagram which describes the band conditions of PURPOSE: To facilitate high speed operation by a method wherein a multiquantum well is provided in a base layer to facilitate laser oscillation or light emission of a laser transistor or a light emitting transistor in an activated condition. (57) Abstract:

wavelength of the emitted light is determined by the layer thickness. The thickness of the different from each other, i.e. an InO.73GaO.27 AsO.59PO.41 quantum well layer 111 and an Ino. 87Gao. 13Aso. 31Po. 69 barrier layer 112. Carriers are captured in the layer with the narrower forbidden band and recombination is created and a light is emitted. Therefore, Ino.87Gao.13Aso.31Po.69 layer, 103, an N-type InP emitter layer and 104, an N-type InP emitter layer 103, a base layer 110 and a collector layer 104, a multiquantum well 101 multiquantum well layer 101 is 700Å. The reference numeral 102 denotes a P-type quantity of the emitted light depends upon quantity of the captured carriers and the consists of two types of InGaAsP layers which have respective forbidden band widths



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